

Meng Zhang

List of Publications by Year in descending order

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520
papers

66,079
citations

813

118
h-index

983

237
g-index

536
all docs

536
docs citations

536
times ranked

17062
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Wireless communications with unmanned aerial vehicles: opportunities and challenges. , 2016, 54, 36-42. | | 2,711 |
| 2 | Intelligent Reflecting Surface Enhanced Wireless Network via Joint Active and Passive Beamforming. IEEE Transactions on Wireless Communications, 2019, 18, 5394-5409. | 9.2 | 2,295 |
| 3 | MIMO Broadcasting for Simultaneous Wireless Information and Power Transfer. IEEE Transactions on Wireless Communications, 2013, 12, 1989-2001. | 9.2 | 2,266 |
| 4 | Towards Smart and Reconfigurable Environment: Intelligent Reflecting Surface Aided Wireless Network. IEEE Communications Magazine, 2020, 58, 106-112. | 6.1 | 2,114 |
| 5 | An Overview of Massive MIMO: Benefits and Challenges. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 742-758. | 10.8 | 2,080 |
| 6 | Wireless Communications Through Reconfigurable Intelligent Surfaces. IEEE Access, 2019, 7, 116753-116773. | 4.2 | 1,743 |
| 7 | Wireless Information and Power Transfer: Architecture Design and Rate-Energy Tradeoff. IEEE Transactions on Communications, 2013, 61, 4754-4767. | 7.8 | 1,507 |
| 8 | Energy-Efficient UAV Communication With Trajectory Optimization. IEEE Transactions on Wireless Communications, 2017, 16, 3747-3760. | 9.2 | 1,459 |
| 9 | Joint Trajectory and Communication Design for Multi-UAV Enabled Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 2109-2121. | 9.2 | 1,249 |
| 10 | Throughput Maximization in Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2014, 13, 418-428. | 9.2 | 1,216 |
| 11 | Intelligent Reflecting Surface-Aided Wireless Communications: A Tutorial. IEEE Transactions on Communications, 2021, 69, 3313-3351. | 7.8 | 1,166 |
| 12 | Throughput Maximization for UAV-Enabled Mobile Relaying Systems. IEEE Transactions on Communications, 2016, 64, 4983-4996. | 7.8 | 992 |
| 13 | Energy Minimization for Wireless Communication With Rotary-Wing UAV. IEEE Transactions on Wireless Communications, 2019, 18, 2329-2345. | 9.2 | 991 |
| 14 | Wireless powered communication: opportunities and challenges. , 2015, 53, 117-125. | | 851 |
| 15 | Accessing From the Sky: A Tutorial on UAV Communications for 5G and Beyond. Proceedings of the IEEE, 2019, 107, 2327-2375. | 21.3 | 828 |
| 16 | Holographic MIMO Surfaces for 6G Wireless Networks: Opportunities, Challenges, and Trends. IEEE Wireless Communications, 2020, 27, 118-125. | 9.0 | 699 |
| 17 | Placement Optimization of UAV-Mounted Mobile Base Stations. IEEE Communications Letters, 2017, 21, 604-607. | 4.1 | 697 |
| 18 | Exploiting Multi-Antennas for Opportunistic Spectrum Sharing in Cognitive Radio Networks. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 88-102. | 10.8 | 695 |

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|----|--|------|-----------|
| 19 | Beamforming Optimization for Wireless Network Aided by Intelligent Reflecting Surface With Discrete Phase Shifts. IEEE Transactions on Communications, 2020, 68, 1838-1851. | 7.8 | 692 |
| 20 | Optimal Energy Allocation for Wireless Communications With Energy Harvesting Constraints. IEEE Transactions on Signal Processing, 2012, 60, 4808-4818. | 5.3 | 603 |
| 21 | Secure Wireless Communication via Intelligent Reflecting Surface. IEEE Wireless Communications Letters, 2019, 8, 1410-1414. | 5.0 | 585 |
| 22 | Wireless Information Transfer with Opportunistic Energy Harvesting. IEEE Transactions on Wireless Communications, 2013, 12, 288-300. | 9.2 | 578 |
| 23 | Optimal beamforming for two-way multi-antenna relay channel with analogue network coding. IEEE Journal on Selected Areas in Communications, 2009, 27, 699-712. | 14.0 | 559 |
| 24 | Energy-Efficient Data Collection in UAV Enabled Wireless Sensor Network. IEEE Wireless Communications Letters, 2018, 7, 328-331. | 5.0 | 552 |
| 25 | Optimal power allocation for fading channels in cognitive radio networks: Ergodic capacity and outage capacity. IEEE Transactions on Wireless Communications, 2009, 8, 940-950. | 9.2 | 541 |
| 26 | Opportunistic Wireless Energy Harvesting in Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2013, 12, 4788-4799. | 9.2 | 541 |
| 27 | Intelligent Reflecting Surface-Enhanced OFDM: Channel Estimation and Reflection Optimization. IEEE Wireless Communications Letters, 2020, 9, 518-522. | 5.0 | 520 |
| 28 | A Review on Spectrum Sensing for Cognitive Radio: Challenges and Solutions. Eurasip Journal on Advances in Signal Processing, 2010, 2010, . | 1.7 | 518 |
| 29 | Wireless Information and Power Transfer: A Dynamic Power Splitting Approach. IEEE Transactions on Communications, 2013, 61, 3990-4001. | 7.8 | 491 |
| 30 | Secrecy Wireless Information and Power Transfer With MISO Beamforming. IEEE Transactions on Signal Processing, 2014, 62, 1850-1863. | 5.3 | 491 |
| 31 | Intelligent Reflecting Surface Enhanced Wireless Network: Joint Active and Passive Beamforming Design. , 2018, . | | 455 |
| 32 | Fundamentals of Wireless Information and Power Transfer: From RF Energy Harvester Models to Signal and System Designs. IEEE Journal on Selected Areas in Communications, 2019, 37, 4-33. | 14.0 | 452 |
| 33 | Joint Transmit Beamforming and Receive Power Splitting for MISO SWIPT Systems. IEEE Transactions on Wireless Communications, 2014, 13, 3269-3280. | 9.2 | 448 |
| 34 | Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. IEEE Open Journal of the Communications Society, 2020, 1, 798-807. | 6.9 | 445 |
| 35 | Cellular-Connected UAV: Potential, Challenges, and Promising Technologies. IEEE Wireless Communications, 2019, 26, 120-127. | 9.0 | 444 |
| 36 | Capacity Characterization for Intelligent Reflecting Surface Aided MIMO Communication. IEEE Journal on Selected Areas in Communications, 2020, 38, 1823-1838. | 14.0 | 440 |

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| 37 | Wireless powered communication networks: an overview. IEEE Wireless Communications, 2016, 23, 10-18. | 9.0 | 435 |
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| 39 | Multiuser MISO Beamforming for Simultaneous Wireless Information and Power Transfer. IEEE Transactions on Signal Processing, 2014, 62, 4798-4810. | 5.3 | 430 |
| 40 | Securing UAV Communications via Joint Trajectory and Power Control. IEEE Transactions on Wireless Communications, 2019, 18, 1376-1389. | 9.2 | 419 |
| 41 | Intelligent Reflecting Surface Meets OFDM: Protocol Design and Rate Maximization. IEEE Transactions on Communications, 2020, 68, 4522-4535. | 7.8 | 417 |
| 42 | Price-Based Resource Allocation for Spectrum-Sharing Femtocell Networks: A Stackelberg Game Approach. IEEE Journal on Selected Areas in Communications, 2012, 30, 538-549. | 14.0 | 414 |
| 43 | Multi-Antenna Wireless Powered Communication With Energy Beamforming. IEEE Transactions on Communications, 2014, 62, 4349-4361. | 7.8 | 394 |
| 44 | Intelligent Reflecting Surface: Practical Phase Shift Model and Beamforming Optimization. IEEE Transactions on Communications, 2020, 68, 5849-5863. | 7.8 | 382 |
| 45 | Real-Time Energy Storage Management for Renewable Integration in Microgrid: An Off-Line Optimization Approach. IEEE Transactions on Smart Grid, 2015, 6, 124-134. | 9.0 | 372 |
| 46 | Communications and Signals Design for Wireless Power Transmission. IEEE Transactions on Communications, 2017, 65, 2264-2290. | 7.8 | 353 |
| 47 | Full-Duplex Wireless-Powered Relay With Self-Energy Recycling. IEEE Wireless Communications Letters, 2015, 4, 201-204. | 5.0 | 348 |
| 48 | Multi-antenna based spectrum sensing for cognitive radios: A GLRT approach. IEEE Transactions on Communications, 2010, 58, 84-88. | 7.8 | 342 |
| 49 | Trajectory Design for Completion Time Minimization in UAV-Enabled Multicasting. IEEE Transactions on Wireless Communications, 2018, 17, 2233-2246. | 9.2 | 337 |
| 50 | Throughput Maximization for the Gaussian Relay Channel with Energy Harvesting Constraints. IEEE Journal on Selected Areas in Communications, 2013, 31, 1469-1479. | 14.0 | 316 |
| 51 | Optimal Resource Allocation in Full-Duplex Wireless-Powered Communication Network. IEEE Transactions on Communications, 2014, 62, 3528-3540. | 7.8 | 316 |
| 52 | Energy Tradeoff in Ground-to-UAV Communication via Trajectory Design. IEEE Transactions on Vehicular Technology, 2018, 67, 6721-6726. | 6.3 | 311 |
| 53 | Common Throughput Maximization in UAV-Enabled OFDMA Systems With Delay Consideration. IEEE Transactions on Communications, 2018, 66, 6614-6627. | 7.8 | 309 |
| 54 | Joint Active and Passive Beamforming Optimization for Intelligent Reflecting Surface Assisted SWIPT Under QoS Constraints. IEEE Journal on Selected Areas in Communications, 2020, 38, 1735-1748. | 14.0 | 293 |

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| 55 | Intelligent Reflecting Surface Assisted Secrecy Communication: Is Artificial Noise Helpful or Not?. IEEE Wireless Communications Letters, 2020, 9, 778-782. | 5.0 | 287 |
| 56 | Weighted Sum Power Maximization for Intelligent Reflecting Surface Aided SWIPT. IEEE Wireless Communications Letters, 2020, 9, 586-590. | 5.0 | 285 |
| 57 | Dynamic Resource Allocation in Cognitive Radio Networks. IEEE Signal Processing Magazine, 2010, 27, 102-114. | 5.6 | 281 |
| 58 | Cellular-Enabled UAV Communication: A Connectivity-Constrained Trajectory Optimization Perspective. IEEE Transactions on Communications, 2019, 67, 2580-2604. | 7.8 | 274 |
| 59 | Cooperative Interference Management With MISO Beamforming. IEEE Transactions on Signal Processing, 2010, 58, 5450-5458. | 5.3 | 271 |
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| 61 | Optimal channel estimation and training design for two-way relay networks. IEEE Transactions on Communications, 2009, 57, 3024-3033. | 7.8 | 266 |
| 62 | Throughput Optimization for Massive MIMO Systems Powered by Wireless Energy Transfer. IEEE Journal on Selected Areas in Communications, 2015, , 1-1. | 14.0 | 260 |
| 63 | Wireless Information and Power Transfer in Multiuser OFDM Systems. IEEE Transactions on Wireless Communications, 2014, 13, 2282-2294. | 9.2 | 257 |
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| 66 | Intelligent Reflecting Surface-Assisted Multiple Access With User Pairing: NOMA or OMA?. IEEE Communications Letters, 2020, 24, 753-757. | 4.1 | 251 |
| 67 | 3D Trajectory Optimization in Rician Fading for UAV-Enabled Data Harvesting. IEEE Transactions on Wireless Communications, 2019, 18, 3192-3207. | 9.2 | 250 |
| 68 | UAV-Aided Offloading for Cellular Hotspot. IEEE Transactions on Wireless Communications, 2018, 17, 3988-4001. | 9.2 | 248 |
| 69 | On peak versus average interference power constraints for protecting primary users in cognitive radio networks. IEEE Transactions on Wireless Communications, 2009, 8, 2112-2120. | 9.2 | 246 |
| 70 | Energy Cooperation Optimization in Microgrids With Renewable Energy Integration. IEEE Transactions on Smart Grid, 2018, 9, 1482-1493. | 9.0 | 242 |
| 71 | Modulation in the Air: Backscatter Communication Over Ambient OFDM Carrier. IEEE Transactions on Communications, 2018, 66, 1219-1233. | 7.8 | 237 |
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| 73 | Cooperative Multi-Cell Block Diagonalization with Per-Base-Station Power Constraints. IEEE Journal on Selected Areas in Communications, 2010, 28, 1435-1445. | 14.0 | 222 |
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| 78 | A survey of data fusion in smart city applications. Information Fusion, 2019, 52, 357-374. | 19.1 | 199 |
| 79 | On Ergodic Sum Capacity of Fading Cognitive Multiple-Access and Broadcast Channels. IEEE Transactions on Information Theory, 2009, 55, 5161-5178. | 2.4 | 197 |
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| 90 | UAV-Enabled Cooperative Jamming for Improving Secrecy of Ground Wiretap Channel. IEEE Wireless Communications Letters, 2019, 8, 181-184. | 5.0 | 178 |

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| 91 | Blindly Combined Energy Detection for Spectrum Sensing in Cognitive Radio. IEEE Signal Processing Letters, 2008, 15, 649-652. | 3.6 | 174 |
| 92 | Energy Beamforming With One-Bit Feedback. IEEE Transactions on Signal Processing, 2014, 62, 5370-5381. | 5.3 | 172 |
| 93 | Capacity Characterization of UAV-Enabled Two-User Broadcast Channel. IEEE Journal on Selected Areas in Communications, 2018, 36, 1955-1971. | 14.0 | 166 |
| 94 | Intelligent Reflecting Surface Enhanced Wireless Networks: Two-Timescale Beamforming Optimization. IEEE Transactions on Wireless Communications, 2021, 20, 2-17. | 9.2 | 166 |
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| 98 | Uplink Cooperative NOMA for Cellular-Connected UAV. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 644-656. | 10.8 | 153 |
| 99 | Optimal power allocation for OFDM-based cognitive radio with new primary transmission protection criteria. IEEE Transactions on Wireless Communications, 2010, 9, 2066-2075. | 9.2 | 152 |
| 100 | Symbiotic Radio: A New Communication Paradigm for Passive Internet of Things. IEEE Internet of Things Journal, 2020, 7, 1350-1363. | 8.7 | 152 |
| 101 | A Survey on Channel Estimation and Practical Passive Beamforming Design for Intelligent Reflecting Surface Aided Wireless Communications. IEEE Communications Surveys and Tutorials, 2022, 24, 1035-1071. | 39.4 | 152 |
| 102 | Proactive Eavesdropping Via Jamming for Rate Maximization Over Rayleigh Fading Channels. IEEE Wireless Communications Letters, 2016, 5, 80-83. | 5.0 | 151 |
| 103 | Optimized transmission for fading multiple-access and broadcast channels with multiple antennas. IEEE Journal on Selected Areas in Communications, 2006, 24, 1627-1639. | 14.0 | 149 |
| 104 | Aerial Intelligent Reflecting Surface: Joint Placement and Passive Beamforming Design With 3D Beam Flattening. IEEE Transactions on Wireless Communications, 2021, 20, 4128-4143. | 9.2 | 148 |
| 105 | Energy Management for Renewable Microgrid in Reducing Diesel Generators Usage With Multiple Types of Battery. IEEE Transactions on Industrial Electronics, 2018, 65, 6772-6786. | 7.9 | 146 |
| 106 | Adaptive Deployment for UAV-Aided Communication Networks. IEEE Transactions on Wireless Communications, 2019, 18, 4531-4543. | 9.2 | 144 |
| 107 | Secrecy Wireless Information and Power Transfer in Fading Wiretap Channel. IEEE Transactions on Vehicular Technology, 2016, 65, 180-190. | 6.3 | 141 |
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| 109 | Double-IRS Assisted Multi-User MIMO: Cooperative Passive Beamforming Design. IEEE Transactions on Wireless Communications, 2021, 20, 4513-4526. | 9.2 | 140 |
| 110 | Overcoming Endurance Issue: UAV-Enabled Communications With Proactive Caching. IEEE Journal on Selected Areas in Communications, 2018, 36, 1231-1244. | 14.0 | 136 |
| 111 | A Survey on Millimeter-Wave Beamforming Enabled UAV Communications and Networking. IEEE Communications Surveys and Tutorials, 2022, 24, 557-610. | 39.4 | 135 |
| 112 | CoMP in the Sky: UAV Placement and Movement Optimization for Multi-User Communications. IEEE Transactions on Communications, 2019, 67, 5645-5658. | 7.8 | 133 |
| 113 | Wireless Information Surveillance via Proactive Eavesdropping with Spoofing Relay. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1449-1461. | 10.8 | 132 |
| 114 | Energy Cooperation in Cellular Networks with Renewable Powered Base Stations. IEEE Transactions on Wireless Communications, 2014, 13, 6996-7010. | 9.2 | 131 |
| 115 | Optimal Power Allocation for Outage Probability Minimization in Fading Channels with Energy Harvesting Constraints. IEEE Transactions on Wireless Communications, 2014, 13, 1074-1087. | 9.2 | 129 |
| 116 | Safeguarding Wireless Network with UAVs: A Physical Layer Security Perspective. IEEE Wireless Communications, 2019, 26, 12-18. | 9.0 | 129 |
| 117 | Cooperative Double-IRS Aided Communication: Beamforming Design and Power Scaling. IEEE Wireless Communications Letters, 2020, 9, 1206-1210. | 5.0 | 127 |
| 118 | Green 5G Heterogeneous Networks Through Dynamic Small-Cell Operation. IEEE Journal on Selected Areas in Communications, 2016, 34, 1103-1115. | 14.0 | 126 |
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| 121 | Cellular-Connected UAV: Uplink Association, Power Control and Interference Coordination. IEEE Transactions on Wireless Communications, 2019, 18, 5380-5393. | 9.2 | 122 |
| 122 | Optimal Resource Allocation for Two-Way Relay-Assisted OFDMA. IEEE Transactions on Vehicular Technology, 2009, 58, 3311-3321. | 6.3 | 121 |
| 123 | Transmit Optimization With Improper Gaussian Signaling for Interference Channels. IEEE Transactions on Signal Processing, 2013, 61, 2899-2913. | 5.3 | 121 |
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| 126 | Cognitive beamforming made practical: Effective interference channel and learning-throughput tradeoff. IEEE Transactions on Communications, 2010, 58, 706-718. | 7.8 | 118 |

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| 127 | CoMP Meets Smart Grid: A New Communication and Energy Cooperation Paradigm. IEEE Transactions on Vehicular Technology, 2015, 64, 2476-2488. | 6.3 | 117 |
| 128 | Surveillance and Intervention of Infrastructure-Free Mobile Communications: A New Wireless Security Paradigm. IEEE Wireless Communications, 2017, 24, 152-159. | 9.0 | 117 |
| 129 | Electromagnetic Lens-Focusing Antenna Enabled Massive MIMO: Performance Improvement and Cost Reduction. IEEE Journal on Selected Areas in Communications, 2014, 32, 1194-1206. | 14.0 | 115 |
| 130 | Two-Way Relaying over OFDM: Optimized Tone Permutation and Power Allocation. , 2008, , . | | 114 |
| 131 | On Design of Collaborative Beamforming for Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2011, 59, 2284-2295. | 5.3 | 114 |
| 132 | Hybrid Offline-Online Design for UAV-Enabled Data Harvesting in Probabilistic LoS Channels. IEEE Transactions on Wireless Communications, 2020, 19, 3753-3768. | 9.2 | 113 |
| 133 | On Gaussian MIMO BC-MAC Duality With Multiple Transmit Covariance Constraints. IEEE Transactions on Information Theory, 2012, 58, 2064-2078. | 2.4 | 112 |
| 134 | Wireless Communication Aided by Intelligent Reflecting Surface: Active or Passive?. IEEE Wireless Communications Letters, 2021, 10, 2659-2663. | 5.0 | 112 |
| 135 | Optimal Power Control over Fading Cognitive Radio Channel by Exploiting Primary User CSI. , 2008, , . | | 109 |
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| 137 | Joint Power Control and Passive Beamforming in IRS-Assisted Spectrum Sharing. IEEE Communications Letters, 2020, 24, 1553-1557. | 4.1 | 106 |
| 138 | Resource Allocation for Wireless-Powered IoT Networks With Short Packet Communication. IEEE Transactions on Wireless Communications, 2019, 18, 1447-1461. | 9.2 | 105 |
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| 141 | Placement Optimization of Energy and Information Access Points in Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2016, 15, 2351-2364. | 9.2 | 98 |
| 142 | Securing UAV Communications via Trajectory Optimization. , 2017, , . | | 98 |
| 143 | Distributed Frequency Control in Smart Grids via Randomized Demand Response. IEEE Transactions on Smart Grid, 2014, 5, 2798-2809. | 9.0 | 94 |
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| 145 | UAV-Enabled Radio Access Network: Multi-Mode Communication and Trajectory Design. IEEE Transactions on Signal Processing, 2018, 66, 5269-5284. | 5.3 | 92 |
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| 150 | On the relationship between the multi-antenna secrecy communications and cognitive radio communications. IEEE Transactions on Communications, 2010, 58, 1877-1886. | 7.8 | 89 |
| 151 | Joint Millimeter-Wave Fronthaul and OFDMA Resource Allocation in Ultra-Dense CRAN. IEEE Transactions on Communications, 2017, 65, 1411-1423. | 7.8 | 89 |
| 152 | Spectrum and energy efficiency maximization in UAV-enabled mobile relaying. , 2017, , . | | 89 |
| 153 | Optimal energy allocation for wireless communications powered by energy harvesters. , 2010, , . | | 88 |
| 154 | Cost-aware green cellular networks with energy and communication cooperation. , 2015, 53, 257-263. | | 86 |
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| 159 | Energy Harvesting for Physical-Layer Security in OFDMA Networks. IEEE Transactions on Information Forensics and Security, 2016, 11, 154-162. | 6.9 | 84 |
| 160 | On Active Learning and Supervised Transmission of Spectrum Sharing Based Cognitive Radios by Exploiting Hidden Primary Radio Feedback. IEEE Transactions on Communications, 2010, 58, 2960-2970. | 7.8 | 83 |
| 161 | Adaptively Directional Wireless Power Transfer for Large-Scale Sensor Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 1785-1800. | 14.0 | 83 |
| 162 | Efficient Channel Estimation for Double-IRS Aided Multi-User MIMO System. IEEE Transactions on Communications, 2021, 69, 3818-3832. | 7.8 | 83 |

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